

#### Fresno Transit Master Plan Project

### Technical Advisory Meeting

June 13, 2007





#### Technical Advisory Committee (TAC) June 13, 2007

- Public Presentations
- Executive Minutes of April 25, 2007
- Project Progress and Overview
- Preliminary Ridership Forecasts
- BRT Implementation Alternatives
- Public Meeting: Master Plan Open House





#### Substantial transit stations

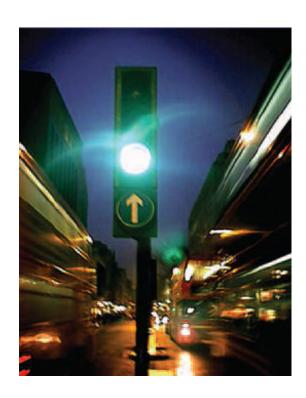








#### Traffic signal priority / pre-emption









#### Low-floor vehicles / level boarding









#### Branding / Marketing



SOURCE: Regional Transportation Commission of Southern Nevada





#### **Curb Extensions**

- Enlarged space for sidewalk boarding.
- Allows bus to stop in its own lane without pulling out from traffic.
- Extensions shorten pedestrians crossings.







### 10 minute peak / 15 minute off-peak headways







#### Amenities Provided by BRT

#### Real-time bus information







#### Amenities Provided by BRT

#### Off-vehicle automatic fare collection



Minimizes dwell times at stations.

Fare collection for BRT could be similar to proof-of-payment on light rail or trolley systems.





#### Amenities Provided by BRT

• Community maps / compass rose









#### Additional Amenities Provided by BRT

- Raised curb for level boarding
- Additional seating at station
- Artwork / Landscaping
- Bicycle racks
- Public address system
- Enhanced pedestrian access





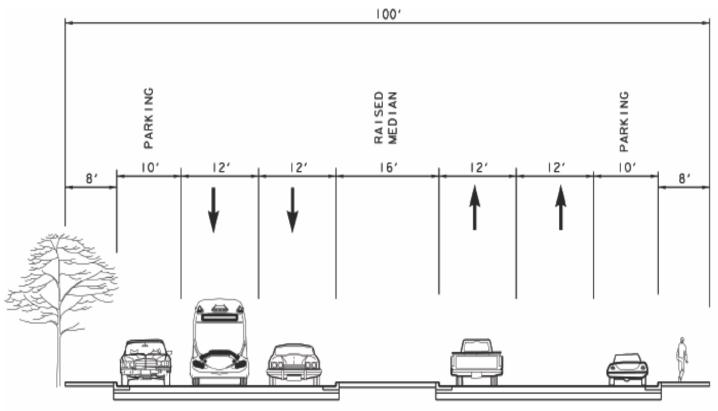
## BRT Implementation Alternatives BASIC INVESTMENT

- 1. Substantial Transit Stations/Shelters
- 2. Real Time Passenger Information
- 3. Traffic Signal Priority / Signal Coordination
- 4. Off-board Fare Collection
- 5. Low-floor Vehicles or Level Boarding
- 6. Branding
- 7. 10 peak/15 off-peak headways
- 8. Queue jumper lanes and minimal dedicated lanes.





# BRT Implementation Alternatives BASIC INVESTMENT







### BRT Implementation Alternatives BASIC INVESTMENT

Street Improvements
Station Costs (Including amenities)
Traffic Signal Upgrade
Right-of-Way Acquisition
Contingency
Environmental Documentation/Design
Construction / Project Management

4 miles, 14 intersections, 8 stations VENTURA CORRIDOR

\$ 500,000 per mile \$ 450,000 per station \$ 25,000 per signal \$ 20 per SF 30% 20%

~\$9.5-12 million 
~\$2.3-3 million / mile

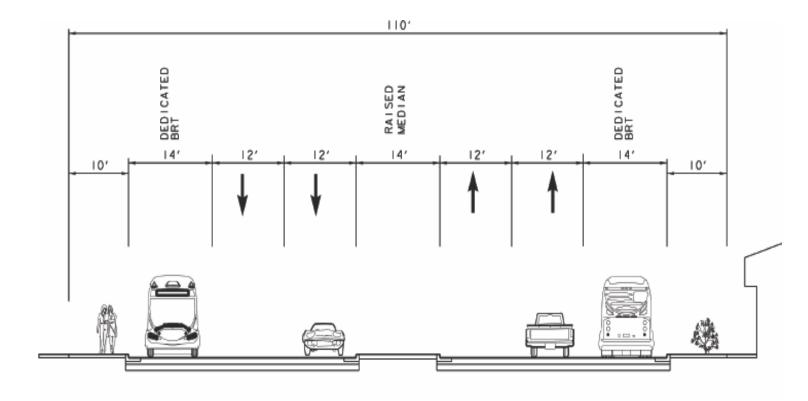




- 1. Dedicated lanes
  - Color paved side-running or median lanes
- 2. Enhanced station investment
  - Landscaping
  - New paving
  - Way-finding signage
  - Additional lighting surrounding station
- 3. Amenities for passengers
  - Additional seating
  - Bicycle parking

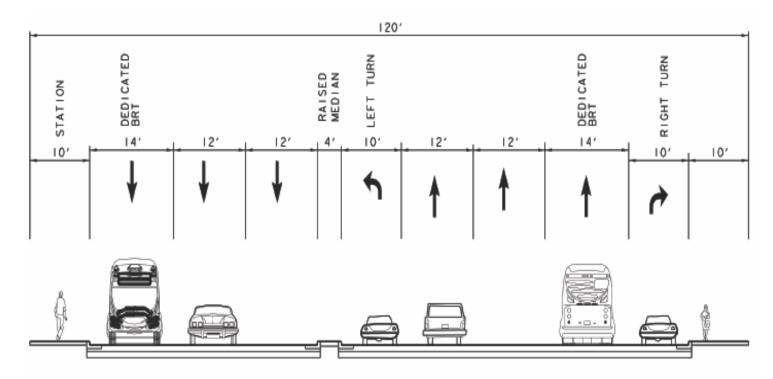
















Street Improvements
Station Costs (Including amenities)
Traffic Signal Upgrade
Right-of-Way Acquisition
Contingency
Environmental Documentation/Design
Construction / Project Management

4 miles, 14 intersections, 8 stations VENTURA CORRIDOR

\$ 1,000,000 per mile \$ 600,000 per station \$ 25,000 per signal \$ 20 per SF 30% 20%

~\$16-20 million ~\$ 4 - 5 million / mile





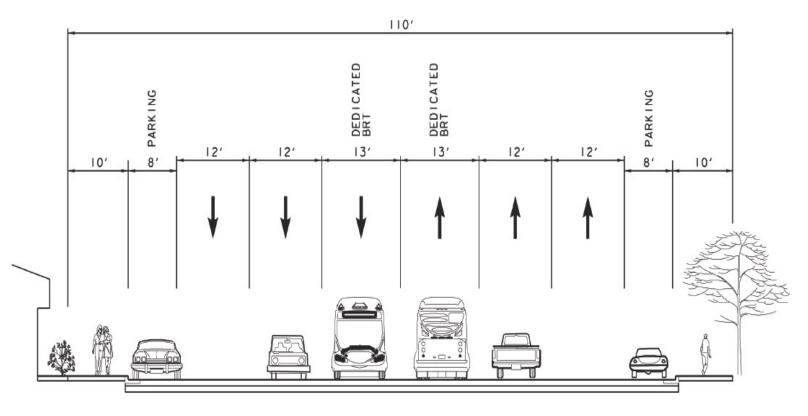
## BRT Implementation Alternatives HIGH INVESTMENT

- 1. Physically separated lanes
  - Median arterial lanes
- 2. Major station investment
  - -Additional landscaping
  - -Special Paving
  - -Public art
- 3. Greater amenities for passengers
  - -Information kiosk
  - -Newspaper racks





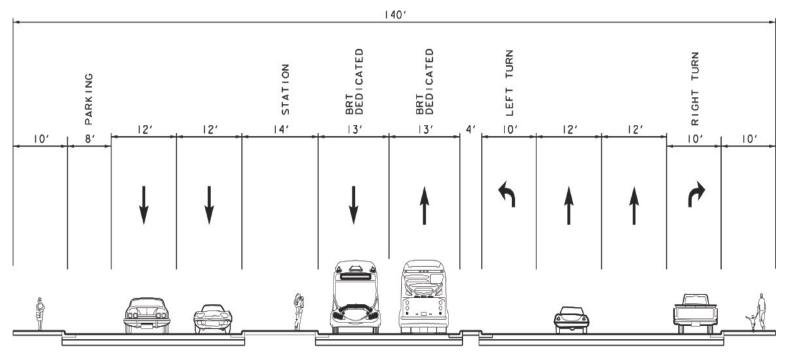
# BRT Implementation Alternatives HIGH INVESTMENT







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#### **BRT** Implementation Alternatives

#### **HIGH INVESTMENT**

Street Improvements
Station Costs (Including amenities)
Traffic Signal Upgrade
Right-of-Way Acquisition
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4 miles, 14 intersections, 8 stations VENTURA CORRIDOR

\$ 3,000,000 per mile \$ 1,600,000 per station \$ 25,000 per signal \$ 20 per SF 30% 20%

~\$46-62 million ~\$ 10 - 15 million / mile





#### Master Plan Open House

#### **FORMAT**

Open format for visitors to freely move between exhibits, diagrams, maps, and video presentation.

Section 1 – Rapid Transit Corridors in Fresno

\* Peter Martin
Wilbur Smith and Associates

Section 2 – What is Bus Rapid Transit (BRT)?

\* Edgar Torres Kimley-Horn and Associates

Section 3 – 60' Hybrid BRT Demonstration Vehicle (PENDING)
\*Bill Coryell
NABI Bus USA



